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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 3 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 4 OCT 03 MATHDI removed from STN
NEWS 5 OCT 04 CA/CAplus-Canadian Intellectual Property Office (CIPO) added to core patent offices
NEWS 6 OCT 13 New CAS Information Use Policies Effective October 17, 2005
NEWS 7 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download of CAplus documents for use in third-party analysis and visualization tools
NEWS 8 OCT 27 Free KWIC format extended in full-text databases
NEWS 9 OCT 27 DIOGENES content streamlined
NEWS 10 OCT 27 EPFULL enhanced with additional content
NEWS 11 NOV 14 CA/CAplus - Expanded coverage of German academic research
NEWS 12 NOV 30 REGISTRY/ZREGISTRY on STN(R) enhanced with experimental spectral property data
NEWS 13 DEC 05 CASREACT(R) - Over 10 million reactions available
NEWS 14 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS 15 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS 16 DEC 14 CA/CAplus to be enhanced with updated IPC codes
NEWS 17 DEC 16 MARPATprev will be removed from STN on December 31, 2005

NEWS EXPRESS DECEMBER 02 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 02 DECEMBER 2005.
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
<http://download.cas.org/express/v8.0-Discover/>

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FILE 'HOME' ENTERED AT 12:40:55 ON 19 DEC 2005

Page 2

=> file reg		SINCE FILE	TOTAL
COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:41:02 ON 19 DEC 2005
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STRUCTURE FILE UPDATES: 18 DEC 2005 HIGHEST RN 870123-57-2
DICTIONARY FILE UPDATES: 18 DEC 2005 HIGHEST RN 870123-57-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

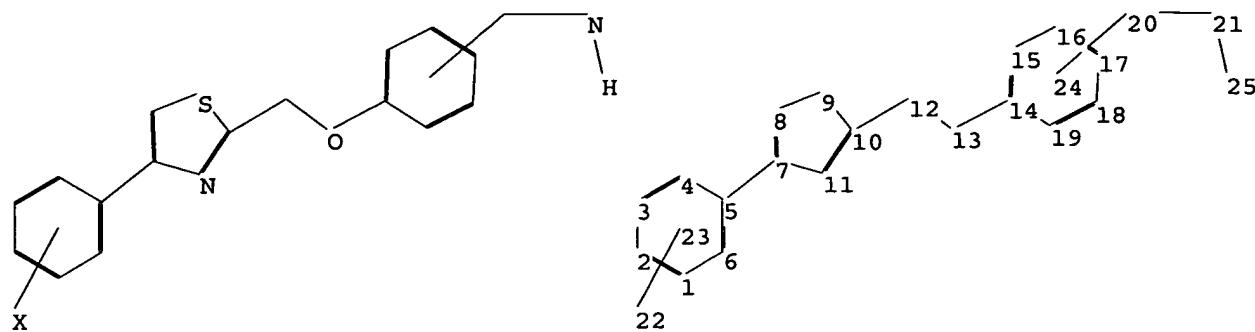
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10612187\Struc 1.str



chain nodes :
12 13 20 21 22 25

ring nodes :
1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 19

chain bonds :
5-7 10-12 12-13 13-14 20-21 21-25

ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 10-11 14-15 14-19 15-16
16-17 17-18 18-19

exact/norm bonds :
7-8 7-11 8-9 9-10 10-11 12-13 13-14 20-21

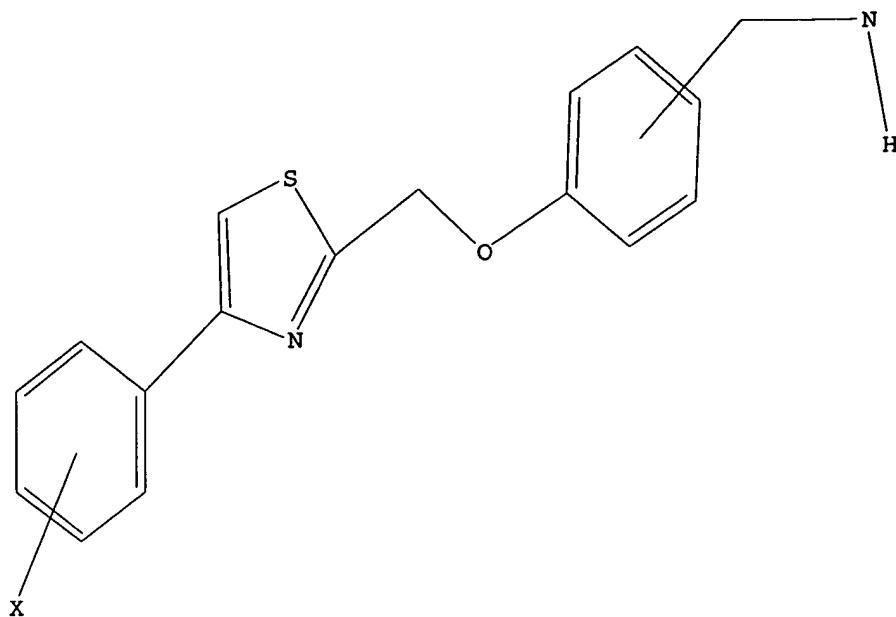
exact bonds :
5-7 10-12 21-25

normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 14-15 14-19 15-16 16-17 17-18 18-19

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> l1
SAMPLE SEARCH INITIATED 12:41:17 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 64 TO ITERATE

100.0% PROCESSED 64 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 800 TO 1760
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> l1 full
FULL SEARCH INITIATED 12:41:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1305 TO ITERATE

100.0% PROCESSED 1305 ITERATIONS 15 ANSWERS
SEARCH TIME: 00.00.01

L3 15 SEA SSS FUL L1

=> file caplus medline
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 161.33 161.54

FILE 'CPLUS' ENTERED AT 12:41:27 ON 19 DEC 2005
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FILE 'MEDLINE' ENTERED AT 12:41:27 ON 19 DEC 2005

=> 13
L4 1 L3

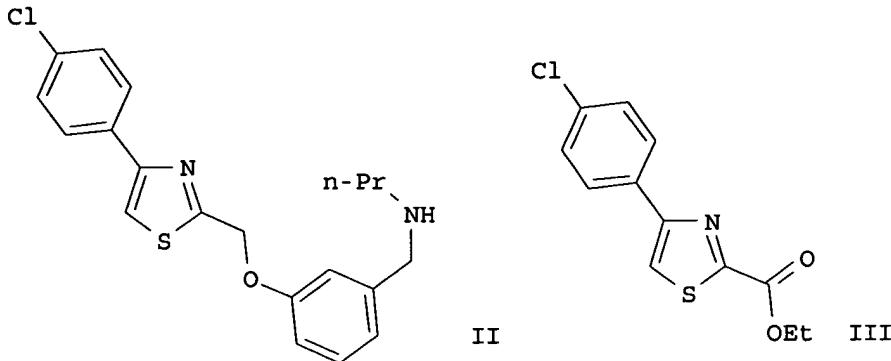
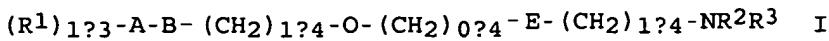
=> d ti

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of substituted heteroaryl and heterocyclic compounds useful
NAD oxidase hydride donor inhibitors

=> d ibib abs hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:41452 CAPLUS
DOCUMENT NUMBER: 140:111408
TITLE: Preparation of substituted heteroaryl and heterocyclic
compounds useful NAD oxidase hydride donor inhibitors
INVENTOR(S): Beers, Scott
PATENT ASSIGNEE(S): Janssen Pharmaceutica, N.V., Belg.
SOURCE: PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004005267	A2	20040115	WO 2003-US20781	20030702
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005014745	A1	20050120	US 2003-612187	20030702
PRIORITY APPLN. INFO.:			US 2002-393710P	P 20020703
OTHER SOURCE(S):		MARPAT 140:111408		
GI				

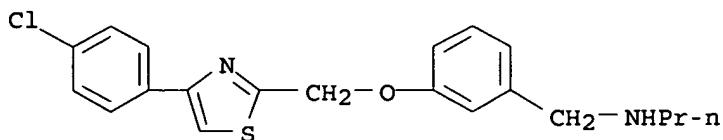


- AB The invention refers to substituted heteroaryl and heterocyclic compds. I [wherein: R1 is a substituent on the 3, 4 or 5 position of the ring A and R1 = H, alkyl, alkoxy, NH2, NH-alkyl, N(alkyl)2, halogen, OH; A, E = phenylene or pyridinylene; B is a monocyclic 5-membered heteroarylene containing N, O, or S, and optionally containing an addnl. N; R2, R3 = H, alkyl-R4, cycloalkyl; R4 = alkoxy, NH2, NH-alkyl, N(alkyl)2, 1-3 halogen(s), OH, cycloalkyl-R5, heterocyclyl-R5, (hetero)aryl-R5; R5 = H, 1 or 2 of alkyl or alkoxy] and pharmaceutically acceptable salts thereof useful as NAD oxidase hydride donor inhibitors. Compds. I are claimed to be useful in treating or ameliorating reactive oxygen species-mediated inflammatory disorders such as osteoarthritis and Alzheimer's disease. In an NADPH oxidase assay for inhibition of superoxide-mediated reduction of cytochrome c in human neutrophils incubated with phorbol myristate acetate, 11 compds. I had IC50 values of 0.04-3.45 μM . For instance, compound II (IC50 = 1.65 μM) was prepared via heterocyclization of 4-ClC6H5C(O)CH2Br with H2NC(S)CO2Et, reduction of obtained thiazole III to the appropriate alc. analog, etherification with 3-HOC6H5CHO, and subsequent reductive amination by propylamine.
- IT **646053-15-8P**, 3-[[4-(4-Chlorophenyl)-2-thiazolyl]methoxy]-N-propylbenzenemethanamine **646053-17-0P**, 4-[[4-(4-Chlorophenyl)-2-thiazolyl]methoxy]-N-propylbenzenemethanamine **646053-18-1P**, 3-[[4-(4-Chlorophenyl)-2-thiazolyl]methoxy]-N-(2-methylpropyl)benzenemethanamine **646053-19-2P**, 3-[[4-(4-Chlorophenyl)-2-thiazolyl]methoxy]-N-cyclopentylbenzenemethanamine **646053-20-5P**, 3-[[4-(4-Chlorophenyl)-2-thiazolyl]methoxy]-N-cyclohexylbenzenemethanamine **646053-21-6P**, 3-[[4-(4-Chlorophenyl)-2-thiazolyl]methoxy]-N-cyclopropylbenzenemethanamine **646053-22-7P**, N-[[3-[[4-(4-Chlorophenyl)-2-thiazolyl]methoxy]phenyl]methyl]-1-methyl-2-pyrrolidinemethanamine dihydrochloride **646053-23-8P**, 4-[2-[[3-[[4-(4-Chlorophenyl)-2-thiazolyl]methoxy]phenyl]methyl]amino]ethylmorpholine dihydrochloride **646053-24-9P**, 4-(4-Chlorophenyl)-2-[[3-[[5-methyl-2-furanyl]methyl]amino]methyl]phenoxy)methyl]thiazole **646053-25-0P**, N-[[3-[[4-(4-Chlorophenyl)-2-thiazolyl]methoxy]phenyl]methyl]-5-methoxy-1H-indole-3-ethanamine hydrochloride **646053-26-1P**, 4-[[4-(4-Chlorophenyl)-2-thiazolyl]methoxy]-N-cyclopentylbenzenemethanamine **646053-27-2P**, 3-[[4-(4-Chlorophenyl)-2-thiazolyl]methoxy]benzenemethanamine **646053-30-7P** **646053-31-8P** **646053-32-9P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted heteroaryl and heterocyclic compds. as NAD oxidase hydride donor inhibitors useful in treating/ameliorating reactive oxygen species-mediated inflammatory disorders)

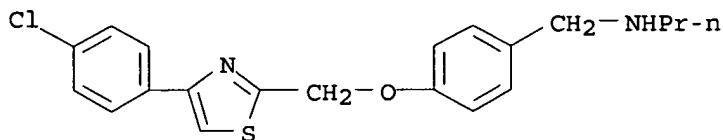
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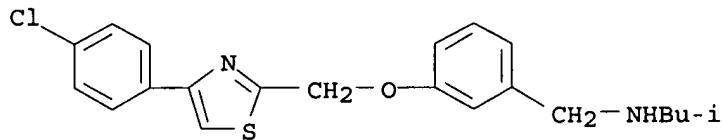
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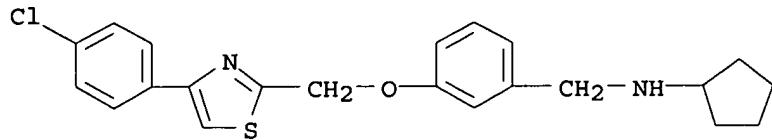
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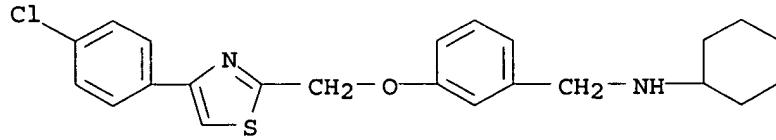
RN 646053-19-2 CAPLUS

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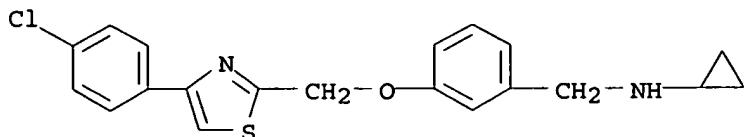
RN 646053-20-5 CAPLUS

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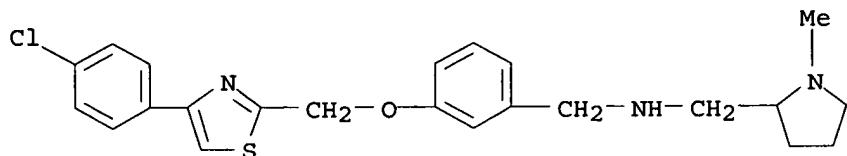
RN 646053-21-6 CAPLUS

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RN 646053-22-7 CAPLUS

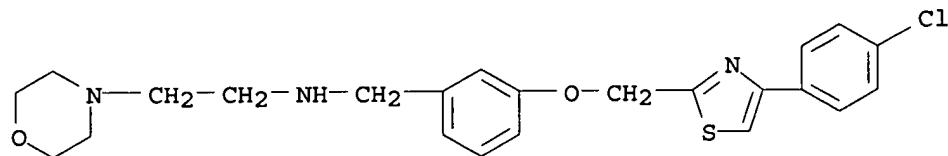
CN 2-Pyrrolidinemethanamine, N-[[3-[[4-(4-chlorophenyl)-2-thiazolyl]methoxy]phenyl]methyl]-1-methyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 646053-23-8 CAPLUS

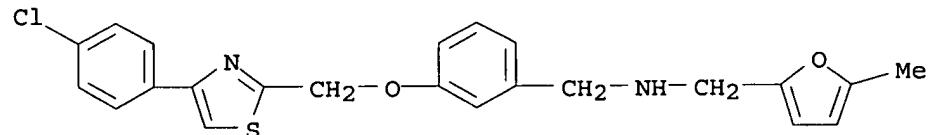
CN 4-Morpholineethanamine, N-[[3-[[4-(4-chlorophenyl)-2-thiazolyl]methoxy]phenyl]methyl]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 646053-24-9 CAPLUS

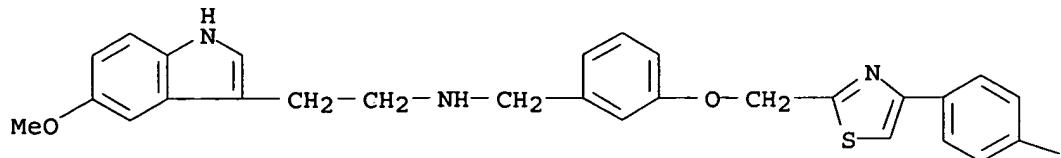
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RN 646053-25-0 CAPLUS

CN 1H-Indole-3-ethanamine, N-[[3-[[4-(4-chlorophenyl)-2-thiazolyl]methoxy]phenyl]methyl]-5-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

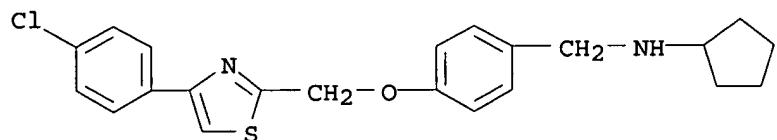


• HCl

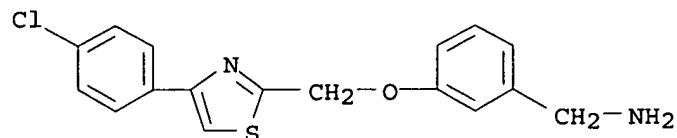
PAGE 1-B

-c1

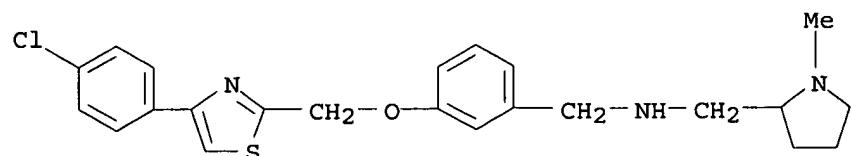
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CN Benzenemethanamine, 4-[(4-(4-chlorophenyl)-2-thiazolyl)methoxy]-N-cyclopentyl- (9CI) (CA INDEX NAME)



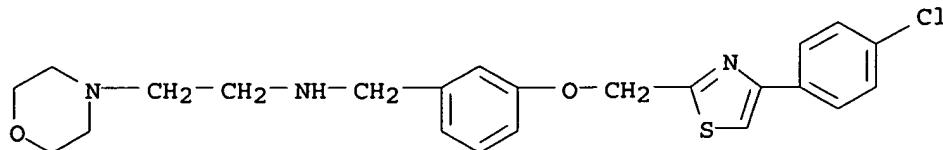
RN 646053-27-2 CAPLUS
CN Benzenemethanamine, 3-[[4-(4-chlorophenyl)-2-thiazolyl]methoxy]- (9CI)
(CA INDEX NAME)



RN 646053-30-7 CAPLUS
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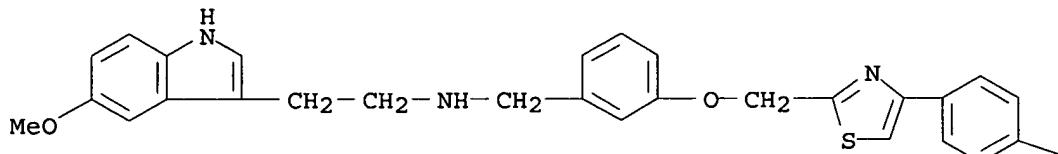


RN 646053-31-8 CAPLUS
CN 4-Morpholineethanamine, N-[[3-[[4-(4-chlorophenyl)-2-thiazolyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)



RN 646053-32-9 CAPLUS
CN 1H-Indole-3-ethanamine, N-[[3-[[4-(4-chlorophenyl)-2-thiazolyl]methoxy]phenyl]methyl]-5-methoxy- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

cl

=> logoff hold		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	7.74	169.28
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:44:48 ON 19 DEC 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAJRK1626

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS, MEDLINE' AT 12:56:03 ON 19 DEC 2005
FILE 'CAPLUS' ENTERED AT 12:56:03 ON 19 DEC 2005
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FILE 'MEDLINE' ENTERED AT 12:56:03 ON 19 DEC 2005

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.74	169.28

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.74	169.28

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

FILE 'REGISTRY' ENTERED AT 12:56:13 ON 19 DEC 2005
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STRUCTURE FILE UPDATES: 18 DEC 2005 HIGHEST RN 870123-57-2
DICTIONARY FILE UPDATES: 18 DEC 2005 HIGHEST RN 870123-57-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

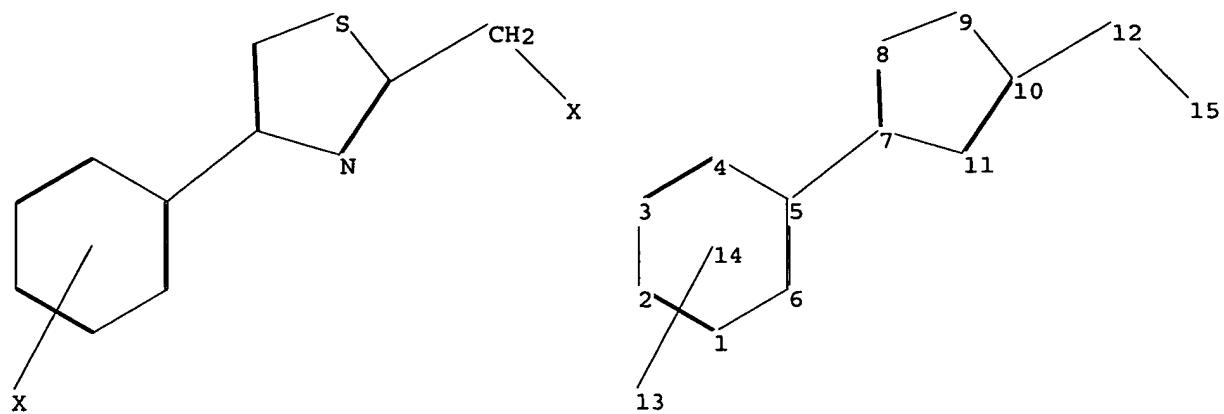
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10612187\Struc 2.str



chain nodes :

12 13 15

ring nodes :

1 2 3 4 5 6 7 8 9 10 11

chain bonds :

5-7 10-12 12-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 10-11

exact/norm bonds :

7-8 7-11 8-9 9-10 10-11

exact bonds :

5-7 10-12 12-15

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

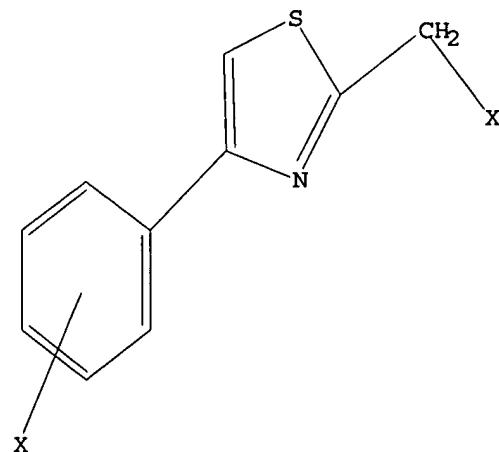
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L5 STRUCTURE UPLOADED

=> d

L5 HAS NO ANSWERS

L5 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> 15
SAMPLE SEARCH INITIATED 12:56:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 115 TO ITERATE

100.0% PROCESSED 115 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1657 TO 2943
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> 15 full
FULL SEARCH INITIATED 12:56:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2461 TO ITERATE

100.0% PROCESSED 2461 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

L7 6 SEA SSS FUL L5

=> file caplus medline
COST IN U.S. DOLLARS SINCE FILE TOTAL
                           ENTRY SESSION
FULL ESTIMATED COST           161.33 330.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
                           ENTRY SESSION
CA SUBSCRIBER PRICE           0.00 -0.73

FILE 'CAPLUS' ENTERED AT 12:56:41 ON 19 DEC 2005
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FILE 'MEDLINE' ENTERED AT 12:56:41 ON 19 DEC 2005

=> 17
L8 5 L7

=> dup rem 18
PROCESSING COMPLETED FOR L8
L9 5 DUP REM L8 (0 DUPLICATES REMOVED)

=> d ibib abs hitstr

L9 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:755717 CAPLUS
DOCUMENT NUMBER: 124:8677
TITLE: Evolution of a series of non-quinoline leukotriene D4
       receptor antagonist; synthesis and SAR of
       benzothiazoles and thiazoles substituted benzyl
       alcohols as potent LTD4 antagonists
AUTHOR(S): Lau, C. K.; Dufresne, C.; Gareau, Y.; Zamboni, M. ;
           Labelle, R. N.; Young, K. M.; Metters, C.; Rochette,
           N.; Sawyer, D. M.; et al.
CORPORATE SOURCE: Merck Frosst Cent. Therapeutic Res., Pointe
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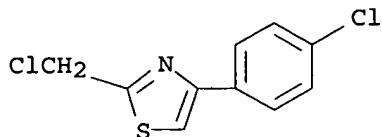
SOURCE: Claire-Dorval, QC, H94 4P8, Can.
 Bioorganic & Medicinal Chemistry Letters (1995),
 5(15), 1615-20
 CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 124:8677

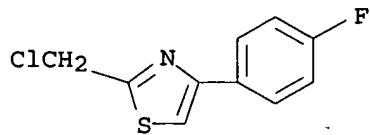
AB Replacement of the quinoline pharmacophore of verlukast by alkylthiazoles and benzothiazoles has lead to the discovery of a new series of potent and orally active LTD4 receptor antagonists. The synthesis and structure activity relationships of this series of compds. are described.

IT 170881-67-1P 170881-68-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and SAR of benzothiazoles and thiazoles substituted benzyl alcs. as potent LTD4 antagonists)

RN 170881-67-1 CAPLUS
 CN Thiazole, 2-(chloromethyl)-4-(4-chlorophenyl)- (9CI) (CA INDEX NAME)



RN 170881-68-2 CAPLUS
 CN Thiazole, 2-(chloromethyl)-4-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



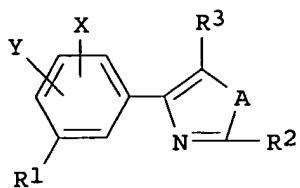
=> d ibib abs hitstr 2-5

L9 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1995:508003 CAPLUS
 DOCUMENT NUMBER: 122:265364
 TITLE: Preparation of 4-phenyloxazole and -thiazole derivatives as herbicides
 INVENTOR(S): Nakanishi, Hiroyuki; Miura, Juzo; Nishioka, Hitoshi; Ootsuka, Takashi
 PATENT ASSIGNEE(S): Nihon Nohyaku Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

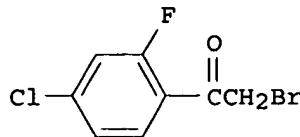
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06340643	A2	19941213	JP 1994-89169	19940404
PRIORITY APPLN. INFO.:			JP 1994-89169	A 19940404
			JP 1993-101921	19930404

OTHER SOURCE(S):
GI

MARPAT 122:265364



I



II

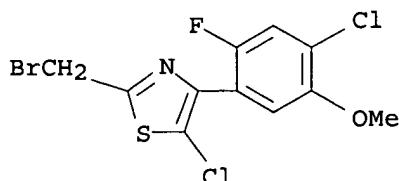
AB The title compds. [I; R1 = halo, NO₂, C₁₋₆ alkyl, halosulfonyl, BR4, NR5; wherein B = O, S(O)_n (n = 0-2); R4 = H, C₁₋₆ (halo)alkyl, C₁₋₆ hydroxyalkyl, C₂₋₆ (halo)alkenyl, C₂₋₆ (halo)alkynyl, C₃₋₆ (halo)cycloalkyl, etc.; R5 = H, C₁₋₆ (halo)alkyl, C₂₋₆ (halo)alkenyl, C₂₋₆ (halo)alkynyl, C₃₋₆ cycloalkyl, C₁₋₆ (halo)alkylsulfonyl, phenyl-C₁₋₆ alkyl, etc.; R2 = HO, C₁₋₆ (halo)alkyl, C₁₋₆ cycloalkyl, C₁₋₆ (halo)alkoxy, C₁₋₆ alkoxy-C₁₋₆ alkyl, C₁₋₆ alkylthio-C₁₋₆ alkyl; R3 = H, halo; A = O, S; X, Y = halo, C₁₋₆ (halo)alkyl], which show excellent herbicidal activity against post- and preemergence weeds, are prepared. Thus, 3.10 g 1-bromo-2-phenyl-2-ethanone derivative (II) and 2.61 g isobutyramide were heated at 150-160° for 5.5 h to give, after silica gel chromatog., 81.9% title compound I (R1 = iso-ProO, R2 = iso-Pr, R3 = H; X, Y = 2-F, 4-Cl). I (R1 = OCH₂C.tplbond.CH, R2 = iso-Pr, R3 = Cl; X, Y = 2-F, 4-Cl) at 1 kg/ha postemergence controlled ≥95% Echinochloa crus-galli in a flooded paddy soil and gave no damage to rice. A total of 165 I were prepared

IT 162504-21-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of phenyloxazole or -thiazole derivative as herbicide)

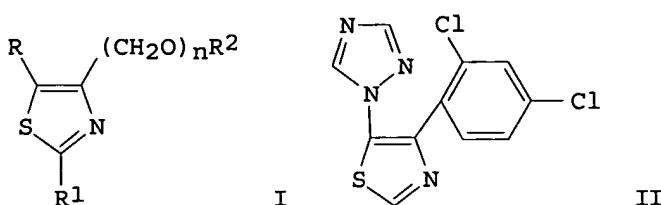
RN 162504-21-4 CAPLUS

CN Thiazole, 2-(bromomethyl)-5-chloro-4-(4-chloro-2-fluoro-5-methoxyphenyl)- (9CI) (CA INDEX NAME)



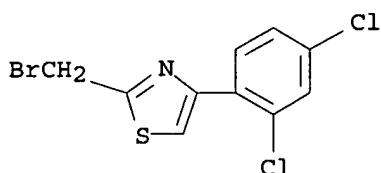
L9 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1991:228903 CAPLUS
 DOCUMENT NUMBER: 114:228903
 TITLE: Preparation of thiazoles as agrochemical fungicides
 INVENTOR(S): Haddock, Ernest; Webb, Suzan Mary
 PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij B. V., Neth.
 SOURCE: Eur. Pat. Appl., 31 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 411718	A2	19910206	EP 1990-202124	19900803
EP 411718	A3	19910703		
R: CH, DE, FR, GB, IT, LI, NL				
JP 03081268	A2	19910405	JP 1990-205284	19900803
US 5332753	A	19940726	US 1992-938687	19920901
PRIORITY APPLN. INFO.:			GB 1989-17849	A 19890804
			US 1990-560567	B1 19900731
OTHER SOURCE(S):		MARPAT 114:228903		
CT				



AB Thiazoles I [R = H, (CH₂)_mY where m = 0-2 and Y = (substituted) N-containing heterocycle; R1 = (CH₂)_pX, N(Z)COX, H, (substituted) alkyl, aryl, amino, or aralkyl, p = 0-2, Z = H, alkyl, X = (substituted) N-heterocyclyl; n = 0-2; R2 = (substituted) Ph] and acid salts, N-oxides, S-oxides and metal salts, were prepared. For example, 2-bromo-2-(1,2,4-triazol-1-yl)-2',4'-dichloroacetophenone (preparation given) was dissolved in EtOH and added to a solution of HC(S)NH₂ in EtOH and the mixture stirred 16 h to give thiazole II in 11% yield. Wheat plants inoculated with Leptosphaeria nodorum at 8 + 105 spores/mL then treated with II at 1 kg/ha showed no fungal growth after 5 days.

IT 133767-85-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of agrochem. fungicides)
RN 133767-85-8 CAPLUS
CN Thiazole, 2-(bromomethyl)-4-(2,4-dichlorophenyl)- (9CI) (CA INDEX NAME)



L9 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:157325 CAPLUS
DOCUMENT NUMBER: 112:157325
TITLE: Dithiocarboxylic acids, dithiocarboxylic esters, or thiocarboxylic amides by reaction of methylene-active chloromethyl compounds with sulfur
AUTHOR(S): Thiel, W.; Mayer, R.
CORPORATE SOURCE: Sekt. Chem., Tech. Univ. Dresden, Dresden, DDR-8027, Ger. Dem. Rep.
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1989), 331(2), 243-62
CODEN: JPCEAO; ISSN: 0021-8383

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 112:157325

AB With a mixture of S and amine in DMF at room temperature halomethyl compds. can be

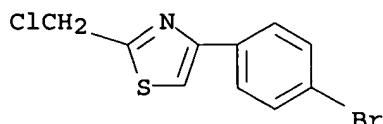
oxidized to give thiocarboxylic acids and their derivs. The reaction was studied in detail especially with chloroacetic derivs. or chloromethyl heterocycles formally derived from chloroacetic acid. The resulting thiooxalic acid derivs. represent activated acids and very useful C2-synthons, especially for the synthesis of heterocycles. Oxidation in the presence of Et₃N leads to dithiocarboxylates which can be alkylated to dithioesters in high yields. As a rule, with different primary and secondary amines instead of tertiary amines these dithiocarboxylates or dithiocarboxylic esters can be transformed already at low temps. to thioamides.

IT 125983-35-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with sulfur in presence of amine)

RN 125983-35-9 CAPLUS

CN Thiazole, 4-(4-bromophenyl)-2-(chloromethyl)- (9CI) (CA INDEX NAME)



L9 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:112450 CAPLUS

DOCUMENT NUMBER: 108:112450

TITLE: Preparation of imidazolylmethylthiazoles as medical fungicides and bactericides

INVENTOR(S): Takano, Shuntaro; Imaizumi, Hiroyuki; Kajita, Tetsuya; Takashima, Kenichi; Takezawa, Katsushi; Yotsutsuji, Minako; Yasuda, Takashi; Yotsutsuji, Akira; Sakai, Hiroshi; Saikawa, Isamu

PATENT ASSIGNEE(S): Toyama Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

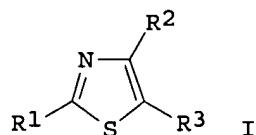
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62178590	A2	19870805	JP 1986-16868	19860130
JP 07025754	B4	19950322		
PRIORITY APPLN. INFO.:			JP 1986-16868	19860130

GI



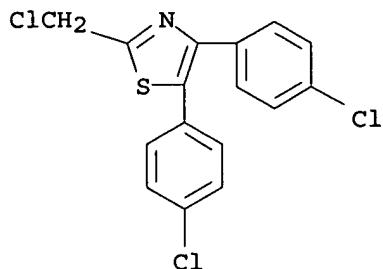
AB The title compds. I [R1-R3 = H, halo, CHO, CO₂H (or esters), (un)substituted alkyl, alkenyl, alkynyl, aryl, cycloalkyl, (CH₂)_nR₄ (R₄ = imidazolyl, 1,2,4-triazolyl, n = 0 or 1); one of R1-R3 is (CH₂)_nR₄], useful as medical fungicides and bactericides, were prepared. A mixture of 630 mg 4-bromomethyl-5-butyl-2-(4-chlorophenyl)thiazole (preparation given) and 595 mg imidazole in 13 mL CHCl₃ was refluxed for 1 h to give 78.7% thiazole derivative I [R₁ = 4-ClC₆H₄, R₂ = (1H-imidazol-1-yl)methyl, R₃ = Bu] (II). II in vitro exhibited a MIC of 6.25 µg/mL against *Candida albicans* IFO 0583.

IT 113265-00-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate in preparation of medical fungicide and bactericide)

RN 113265-00-2 CAPLUS

CN Thiazole, 2-(chloromethyl)-4,5-bis(4-chlorophenyl)- (9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
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FULL ESTIMATED COST

26.10 356.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

	SINCE FILE ENTRY	TOTAL SESSION
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CA SUBSCRIBER PRICE

-3.65 -4.38

STN INTERNATIONAL LOGOFF AT 12:58:19 ON 19 DEC 2005